User Manual

INTRODUCTION

This PCI-Express I/O card uses the latest PCI-Express interface standard for expansion bus, enabling this card to be installed on to any computer with PCI-Express slot. Some of the latest mainboards in the market today no longer come with serial or parallel port. By using this card, end user can add serial and parallel ports to their computer, allowing them to connect their serial and parallel devices. The PCI-Express I/O card offers superior performance and unmatched data transfer rates. It is also ideal for industrial automation applications.

FEATURES AND SPECIFICATION

General

- Fully compliant with PCI-Express Base Specification Revision 1.0a
- Single-Lane (x1) PCI-Express with throughput up to 2.5Gbps
- Supports Re-map function for legacy ports
- Supports Windows 2000, XP 32-/64-bit, Server 2003, Vista 32-/64-bit, Linux, Mac OS, and DOS

Serial Port (RS-232) Interface

- Compatible with industrial standard 16C450/16C550 UART
- On chip 256-byte depth FIFO in transmit, receive path of each port
- Transfer data rates up to 250Kbps on each port (special version can support up to 1Mbps)
- Supports hardware and software flow control
- Supports 5-, 6-, 7-, 8- bit serial format
- Supports even, odd, none, space & mark parity
- Supports 1 or 2 Stop bit operation

Parallel Port Interface

- IEEE1284 compatible parallel port
- Supports SPP, PS2*, EPP* & ECP* mode
- Fast data rates up to 1.5Mbps*

**Depends on Chipset version*

HARDWARE INSTALLATION

1. Turn off your computer and all devices connected to it.
2. Remove the computer's cover. Refer to your computer user's manual for more details.
3. Find an unused PCI-Express slot and remove the metal bracket. Save the bracket screw for later use.
4. Align the card horizontally with respect to the PCI-Express slot and insert it into the slot firmly and evenly. Take care not to force it into the slot. Once you have properly positioned the card into the slot, secure the card with the bracket screw you have saved.
5. Replace the computer's cover.
6. Turn your computer on. You are now ready to install the driver!

DRIVER INSTALLATION

Installing Driver for Windows Vista:

1. Before start Vista 64bit operating system, press **F8** to select **"Disable Driver Signature Enforcement"**. You should always select this option when you use this card on Vista 64bit operating system. Skip Step1, if you use this card on Vista 32bit operating system, or use WHQL driver.
2. Once Vista start up is completed, insert the **Driver CD** into the CD-ROM drive, assume drive D.
3. Vista will automatically detect the PCI-Express I/O card. Select **"Locate and install driver software (recommended)"** and click **Continue**. And then select **"I don't have the disc. Show me other options"**.
4. Click on: **Browse my computer for driver software (advanced)**, and then browse to the following folder on the Driver CD, assume the operating system used is Windows Vista 32bit:

   D:\Moschip\MCS9901\Vista

5. Click the **Next** to continue.
6. Follow the on-screen instruction until the driver is install completely.
7. Select **"Install this driver software anyway"** when Vista prompt the following:

   Windows can't verify the publisher of this driver software.

8. Finally click **Close** when all the drivers have been installed.

Installing Driver for Windows 2000, Server 2003, and XP:

1. Start Windows and insert the **Driver CD** into the CD-ROM drive, assume drive D.
2. Windows will automatically detect the PCI-Express I/O card. Select **"No, not this time"** and click the **Next** button to continue.
3. Select **"Install from a list or specific location (Advanced)"** and click on the **Next** button.
4. Uncheck **"Search removable media"** and check **"Include this location in the search"**, and then click the **Browse** button to select the location for the drivers, assume the operating system used is Windows XP 32bit:

   D:\Moschip\MCS9901\Win2K_XP_2003Server

5. Click the **OK** button to confirm and click **Next** button to continue.
6. If the wizard asks for Windows Logo testing to verify compatibility, click **Continue Anyway**.
7. Click the **Finish** button to finish installing driver.
8. Once driver installation is completed, you can now connect your external devices to the PCI-Express I/O card. To install the driver for the external devices, please refer to the external device user's manuals.

Installing Driver for Linux, MacOS, and DOS:

Please refer to the installation documents on the Driver CD for installing these operating systems. To obtain the latest drivers, please refer to the **Updating Drivers** section below.

Updating Drivers:

The latest drivers and last-minute change to this document are available on this website:

http://www.drivers-download.com

Search for the following Download Code from "Drivers Search":

Chipset.	Description	Download Code
MCS9901	PCI-E card to multi serial ports (1S/2S/4S/6S)	DL-0234802
	PCI-E card to Single/Dual Parallel Ports (1P/2P)	DL-0234803
	PCI-E card to Multi-function ports (2S1P/2S2P/4S1P)	DL-0234804

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